

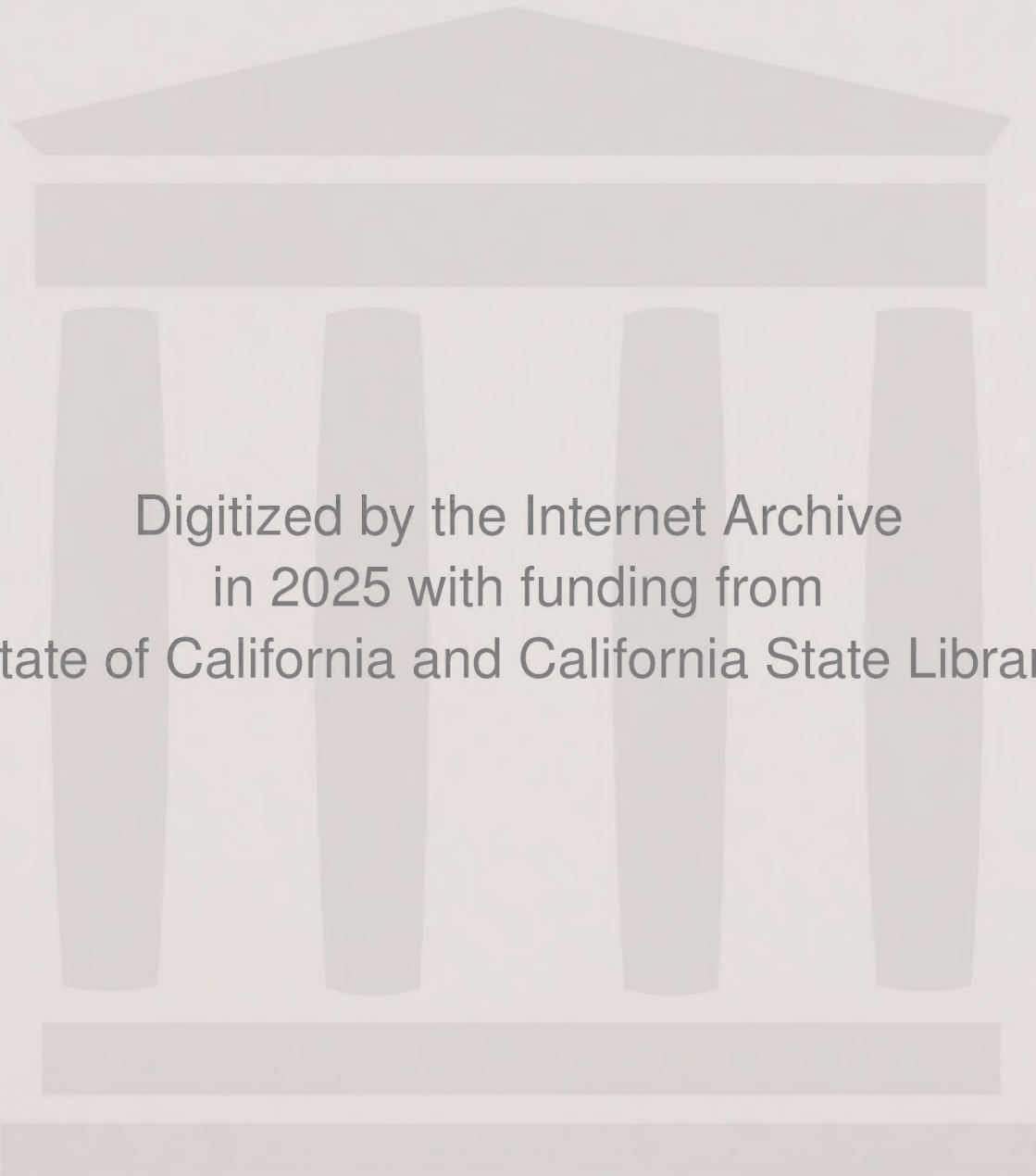
PROPOSED



**REGIONAL
WATER QUALITY
MANAGEMENT
PLAN**



Bay Area Sewage Services Agency
Hotel Claremont, Berkeley 94705



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BAY AREA SEWAGE SERVICES AGENCY

Hotel Claremont
Berkeley, California

REGIONAL WATER QUALITY MANAGEMENT PLAN

December 1975

Prepared by: Daniel F. Murphy, Director of Planning and
Technical Programs.

Submitted by: Paul C. Soltow, Jr., General Manager

Approved by: Planning Committee

BAY AREA SEWAGE SERVICES AGENCY

BOARD OF TRUSTEES
(continued)

Santa Clara County	Solano County
Frank J. Barcells	Robbieburr Berger
City of San Jose	Fairfield-Suisun Sewer District
Mark DiDuca	*John F. Cunningham
Town of Los Gatos	City of Vallejo
Gilbert R. Gunn	
City of Sunnyvale	Sonoma County
W. Reed Sparks	Jack W. Cavanagh
City of Cupertino	City of Petaluma
David Stout	*Henri Riboni
City of Gilroy	Sonoma Valley County
*Joseph A. Colla	Sanitation District
City of San Jose	
*Virginia Days	
City of Morgan Hill	
*Janet Gray Hayes	
City of San Jose	
*Stanley Norton	
City of Palo Alto	
*Edward T. Ramey	
Milpitas Sanitary District	*Alternates

TECHNICAL ADVISORY COMMITTEE

Alameda County	San Mateo County
Elmer Ross, Chairman	Robert Eppler
*Raymond Boege	*Norman Rubel
Contra Costa County	Santa Clara County
E. L. Macdonald, Jr.	Donald M. Somers
*William C. Dalton	*Raymond Rempel
Marin County	Solano County
Charles A. Joseph	Dennis Scherzinger
*John T. Schulte	*Joseph Shilts
Napa County	Sonoma County
Carl F. Lynch	Leon Anderson
*Joseph Reynolds	*John Sciborski
City and County of San Francisco	
Robert Levy	
*Alan O. Friedland	

BAY AREA SEWAGE SERVICES AGENCY

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*Alan O. Friedland	

ABOUT THE AGENCY

The Bay Area Sewage Services Agency is a nine-county public entity responsible for regional water quality management within the nine counties of the San Francisco Bay Area. BASSA serves a present population of 4.6 million persons who dispose of over 500 million gallons of sewage daily.

BASSA is developing regional water quality management plans to coordinate more than 100 local agencies and 70 industries. In order to protect, conserve and enhance beneficial uses of the water of the Region, the Agency is empowered to perform the following functions:

- Prepare and adopt comprehensive water quality management plans for the San Francisco Bay Region.
- Assist local agencies in implementation of those plans.
- Participate in development of water quality standards and requirements proposed by federal and state agencies.
- Review local plans.
- Review applications for financial assistance for water quality control facilities proposed by local agencies.

BASSA is governed by a 21-member board of trustees appointed by the Supervisors of each county. Trustees are elected officials of local public agencies having responsibility for water quality control facilities. The board is assisted by a Technical Advisory Committee.

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BAY AREA SEWAGE SERVICES AGENCY

Regional Water Quality Management Plan - 1975

INTRODUCTION

The San Francisco Bay Region is one of the most attractive places in the world. Public and private agencies have the obligation to manage the activities of man in the region to protect and enhance the region's resources. The Bay Area Sewage Services Agency is responsible for managing the wastewater generated by the region. This Plan is the basic tool by which the Agency will manage the wastewaters in the region. The Plan also integrates regional activities with the local agency activities to manage urban impacts upon the environment.

PLAN AUTHORIZATION

The BASSA Law (Division 9, California Water Code) is the source of BASSA's responsibilities and authority. Section 16650 of the Law specifies that:

"The Agency (BASSA) shall develop and adopt a regional water quality management plan for that portion of the region defined as the 'San Francisco Bay Region' in Subdivision (b) of Section 13200 and the remainder of Contra Costa County."

PLAN PURPOSE

This Plan is the basis for regional management of construction and operating facilities for protection of surface and ground water and for reclamation/reuse of wastewater and residuals. It coordinates regional efforts with the work of others in land use, air quality and solid waste management areas. The Plan is the basis for implementing the following sections of the Agency Act:

"16680. The Agency shall maintain close surveillance of the implementation of the regional water quality management plan.

16881. The Agency may assume the responsibility for construction and operation, and may construct and operate water quality control facilities, or local sewage collection facilities to the extent necessary to provide service to existing development, consistent with the adopted and approved regional water quality management plan under the following conditions:

BAY AREA SEWAGE SERVICES AGENCY

Regional Water Quality Management Plan - 1975

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16881. The Agency may assume the responsibility for construction and operation, and may construct and operate water quality control facilities, or local sewage collection facilities to the extent necessary to provide service to existing development, consistent with the adopted and approved regional water quality management plan under the following conditions:

- (a) When requested to do so by a local agency or group of local agencies.
- (b) When the Agency, after notice and a public hearing, finds both the following:
 - (1) The proposed water quality control facilities and a firm commitment for their construction and operation are needed.
 - (2) A local agency or, collectively, a group of local agencies does not wish to proceed or cannot proceed.

16684. If any application by a local agency for financial assistance relates to or substantially affects any matter within the scope of the regional water quality management plan, such application shall be submitted to the Agency for review and comment prior to being submitted to the agency from whom financial assistance is proposed to be requested. In reviewing any such application, the Agency shall take the following factors into account:

- (a) Whether the project or purpose for which financial assistance is requested is in conformity with the regional water quality management plan.
- (b) The relative priority of such project or purpose with respect to other projects or purposes for which financial assistance is being or may be sought by other public agencies.
- (c) Any other factors deemed to be relevant.

16690. All plans for water quality control facilities proposed by local agencies, or groups of local agencies, which relate to or substantially affect any matter within the scope of the regional water quality management plan must be submitted to the Agency Board for study, comment and recommendation before final adoption by the local agency or groups of local agencies."

PLAN SETTING

The Bay Area Sewage Services Agency is the regional water quality arm of the complex environmental management efforts pursued at all levels of government. Other elements of environmental concern include water, air and land use. Agencies with responsibilities in these fields include the Environmental Protection Agency (EPA), State Water Resources Control Board, Regional Water Quality Control Boards, State Air Resources Board, State Solid Waste Board, Bay Conservation and Development Commission, Bay Area Air Pollution Control District, Association of Bay Area Governments, each of the nine counties, all of the cities and all of the special sewerage districts.

The agencies with a fundamental role in wastewater management are EPA, State Water Resources Control Board, Regional Water Quality Control Boards and the local sewerage agencies. The first three of these have regulatory functions while local agencies are charged with operating responsibilities. BASSA's general role is to draw together operations of wastewater management agencies to assure timely construction of wastewater management facilities. It is also BASSA's responsibility to coordinate its wastewater management program with other environmental programs in the region.

This Plan is the summation of the region's water quality planning efforts. All of the aforementioned agencies have their individual plans and programs. Federal and state planning is set forth in the Water Quality Management Plan - San Francisco Bay Basin adopted by the California State Water Resources Control Board on April 17, 1975.

The Basin Plan was prepared to guide regulatory and grant review activities of EPA and State and Regional Boards. At the local level, those cities and special districts responsible for treatment and disposal of wastewaters in compliance with federal and state regulations have developed local plans for compliance. The Regional Plan harmonizes facilities planning programs to fill voids left and provides coordination of planning efforts.

To assure integration of this Plan with these other planning efforts and to avoid duplication of efforts, reliance has been placed upon findings of the Basin Plan and local project reports. The portions of the Basin Plan upon which this plan is based are as follows:

- "Chapter 2. Present and Potential Beneficial Uses
- Chapter 5. Recommended Plan
- Chapter 11. Basin Description
- Chapter 14. Water Quality and Quantity Problems
- Chapter 15. Problem Assessment
- Chapter 16. Alternative Control Measures"

Basic information contained in local facilities plans which has been relied upon includes:

- Planning Area Characteristics
- Wastewater Characteristics
- Waste Discharge and Treatment Requirements
- Wastewater Reclamation/Reuse Evaluation
- Alternative Facilities Programs
- Recommended Facilities Plan
- Institutional and Financing Plan

REGIONAL PLAN

The elements of the Regional Water Quality Management Plan are as follows:

1. Facilities program.
 - a. For BASSA planning area.
 - b. For other areas in the region.
2. Program for unsewered areas.
3. Source control program.
4. Residuals management program.
5. Wastewater reclamation/reuse program.
6. Urban runoff program.
7. Infiltration/Inflow program.
8. Personnel Training and Recruitment.
9. Coordinated Monitoring program.

FACILITIES PROGRAM

Tables I and II describe the wastewater facilities needed for compliance with state and federal water quality objectives and waste discharge requirements. Table I itemizes those facilities in BASSA's planning area. Table II lists those for the rest of the region. Figure I shows the location of individual programs.

The Plan facilities were selected after thorough evaluation of all feasible alternatives. Factors considered included engineering, financial and environmental impacts. Also considered were the adaptability of these facilities to changing conditions, i.e. more stringent environmental controls and improvements in the use of total water resources. In general, the Plan facilities consist of interceptor sewers to transport wastewater to locations of optimum assimilation plus upgrading of treatment to secondary levels. (Where necessary for compliance with more stringent requirements, a higher level of treatment is specified.) If it is more economical, a new consolidated treatment plant would be constructed. Treatment, transport and disposal facilities are also listed for areas which have inordinately high wet weather flows. Where feasible at an early date, wastewater reclamation/reuse facilities would be constructed. The Plan facilities constitute the optimum first-stage regional facility requirements. Subsequent stages will be developed as first-phase goals are met and conditions warrant.

Table I contains the facilities plans and implementation plans required by Water Code Section 16650. Table I is the basis of the Regional Planning upon which the Agency will consider implementation activities as set forth in Water Code Sections 16687, 16684 and 16690.

OTHER FACILITIES PLANS (Plan language will be subject to revision should AB1690 amending Agency boundaries be signed into law and become effective January 1, 1976.)

The BASSA Law does not specifically provide for BASSA to have planning grant review responsibilities or to become the implementing agency in Basins 1B, 3, 5A and B. However, the Agency does have responsibilities for coordinating water quality activities in the portions of those basins within the nine Bay Area counties. BASSA's responsibilities for these areas which are within the nine counties but outside of Basin 2 include, but are not limited to, the following:

- Advice and coordination on matters related to federal and state regulations.
- Coordination and assistance of the development of local, regional and state plans for, or which impact on, water quality management.
- Coordination and assistance in implementation of water quality management plans.

These facilities plans listed in Table II will be updated in the same manner as those listed on Table I. Their locations are shown on figure I.

BAY AREA SEWAGE SERVICES AGENCY
1975 Regional Water Quality Management Plan

TABLE I
Facilities in BASSA Planning Area

Planning Subregion	Facilities Plan (a)	Implementation Plan			
		Agencies Responsible for Construction and Operation of Facilities	Schedule for Construction of Facilities		Financing (b)
			Start	Completion	
1. <u>Santa Clara Co.</u>	a. Joint interceptor of San Jose/Santa Clara, Sunnyvale, and Palo Alto with outfall to north of Dumbarton Bridge. Eventual use of effluent for reclamation program with discharge of excess to San Francisco Bay.	So. Bay Dischargers Authority, composed of San Jose/Santa Clara, Cities of Sunnyvale and Palo Alto.	Dec. 1977	Mar. 1980	Federal and State Grants; local share apportioned among SJ/SC, Sunnyvale, Palo Alto.
	b. Improvement ^(c) of treatment facilities for San Jose/Santa Clara	Cities of San Jose and Santa Clara	Jan. 1976	Jan. 1978	Federal and State Grants; local share apportioned among respective city.
	c. Improvement of treatment facilities for City of Sunnyvale	City of Sunnyvale	Jan. 1976	Jan. 1978	Federal and State Grants; local share financed by city.

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			Start	Completion	
2. <u>Alameda County</u> -- East Bay Sub-region.	b. Improvement of treatment at and consolidation of Union Sanitary District plants at Alvarado. Outfall to connect to EBDA outfall at Hayward.	Union Sanitary Dist.	Sept. 1977	Feb. 1980	Federal and State Grants, local share financed by Union Sanitary District.
	c. Improvement of treatment facilities for Cities of San Leandro, Hayward and Oro Loma Sanitary District.	Cities of San Leandro Hayward and Oro Loma Sanitary District	Nov. 1975	July 1977	Federal and State Grant with local share apportioned among agencies.
3. <u>Alameda County</u> -- East Bay Municipal Utility Dist.	a. Improvement of treatment for East Bay Municipal Special District #1 facility.	East Bay Municipal Utility District	Under construction	July 1976	Federal and State grants; local share financed by EBMUD.

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Planning Subregion	Facilities Plan (a)	Implementation Plan			
		Agencies Responsible for Construction and Operation of Facilities	Schedule for Construction of Facilities		Financing (b)
			Start	Completion	
3. <u>Alameda County--</u> East Bay Municipal Utility Dist.	b. Facilities for elimination, treatment and disposal of maximum feasible amount of wet weather flow into EBMUD Special District #1 sewage collection system.	East Bay Municipal Utility District	June 1977	Sept. 1983	Federal and State grants; local share financed by EBMUD.
4. <u>Alameda County--</u> Livermore Valley Subregion	a. Interceptor from Pleasanton to VCSD and provision of capacity for City at VCSD.	City of Pleasanton, VCSD	June 1977	June 1979	Federal and State grants; local share apportioned among agencies.
	b. Joint interceptor export of wastewater out of Valley or storage for wet weather routing.	Livermore-Amador Valley Water Management Agency. Composed of: City of Livermore, City of Pleasanton and Valley Community Services District.	Feb. 1978	Feb. 1980	Federal and State grants; local share apportioned among agencies.

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		Agencies Responsible for Construction and Operation of Facilities	Schedule for Construction of Facilities		Financing (b)
			Start	Completion	
5. <u>Contra Costa Co.</u> - West County Subregion.	a. Joint outfall to Point Richmond for Richmond, San Pablo and improvement of treatment facilities at San Pablo. Consolidation of Pinole and Hercules.	Cities of Richmond, San Pablo, Hercules; Contra Costa County.	Apr. 1977	Apr. 1979	Federal and State grants; local share apportioned among Richmond San Pablo, Pinole, Hercules and Contra Costa County.
	b. Improvement of treatment and disposal facilities for Rodeo Sanitary Dist.	Rodeo Sanitary Dist.	Under construction	Sept. 1975	Federal and State grants; local share financed by Rodeo Sanitary District.
	c. Joint treatment facilities for Crockett-Valona Sanitary District and C&H Sugar Company; with abandonment of Crockett-Valona plant or improvement of treatment and disposal facilities for Crockett-Valona Sanitary District.	Crockett-Valona San. District and C&H Sugar Company.	July 1976	Jan. 1978	Federal and State grants for Crockett-Valona facilities; local community share of funding by Crockett-Val. S.D. C&H Sugar to pay full cost of its facility.

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			Start	Completion	
5. <u>Contra Costa Co.</u> Central County Subregion	a.I.Improvement of treatment and disposal facilities for Central Contra Costa Sanitary District. II.Interception of City of Concord to District and abandonment of Concord facility. III.Effluent reclamation for industrial reuse or discharge to Suisun Bay.	Central Contra Costa County Sanitary District and Contra Costa County Water District.	Under construction	Jan. 1979	Federal and State grants; local share apportioned among CCCSD, CCCWD and City of Concord.
	b. Improvement of treatment and disposal facilities, or interception to Central Sanitary, or interception to East/Central Agency with Abandonment of Mt. View facilities.	Mt. View Sanitary District, CCCSD, East/Central Agency.	Jan. 1978	Jan. 1980	Federal and State grants; local share apportioned among involved agencies.

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			Start	Completion	
5. <u>Contra Costa Co.</u>	a. Subregional treatment and disposal for Central/Eastern County Area with areawide and/or local reclamation and/or consolidation of treatment facilities for City of Pittsburg; improvement and/or abandonment of treatment facilities for Cities of Antioch, Brentwood, Oakley and County Sanitary District No.s 19, 15, 7A, and Contra Costa County.	Cities of Antioch, Pittsburg, Brentwood, Contra Costa County Sanitary Districts No. 7A, 15, 19 and Oakley Sanitary Dist.	March 1977	Feb. 1980	State and Federal grants; local share apportioned among participating agencies
5. <u>Contra Costa Co.</u> Discrete Industrial dischargers	Improvement of treatment and disposal facilities for private industry and/or where feasible participation in community programs.	Individual industries	Under construction	July 1977	Individual industries.

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			Start	Completion	
6. <u>Solano County</u> Fairfield-Suisun Area	a. Fairfield-Suisun Sewer District and Travis Air Force Base joint treatment facilities. Use of effluent for agricultural irrigation with seasonal discharge to Suisun Marsh.	Fairfield-Suisun Sanitary District; Cities of Fairfield and Suisun.	Under Construction	July 1976	Federal and State grants; local share to be apportioned among Fairfield-Suisun S.D., Cities of Fairfield and Suisun. Travis A.F.B. to purchase treatment capacity and finance interceptor.
7. <u>Solano County</u> Benicia Area	a. Improvement of treatment and disposal facilities.	City of Benicia	Nov. 1976	June 1978	Federal and State grants; local share to be financed by City of Benicia

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			Start	Completion	
8. <u>Western Solano & Napa Counties</u> Lower Napa River	a. Vallejo Sanitation and Flood Control District. Improvement of treatment and disposal facilities; transport facilities from Mare Island to Vallejo.	Vallejo Sanitation and Flood Control District.	Under construction	Jan. 1977	Federal and State grants; local share by Vallejo Sanitation and Flood Control District. U.S. Navy purchase of treatment plants capacity and financing of interceptor.
	b. Napa Sanitation District improvement of treatment and disposal facilities. Reclamation potential for agricultural irrigation and frost control; transport facilities from American Canyon to Napa.	Napa Sanitation District and American Canyon County Water District.	Sept. 1975	Sept. 1977	Federal and State grants; local share to be apportioned among Napa S.D. and American Canyon C.W.D.

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			Start	Completion	
9. <u>Napa County</u> Upper Napa River	a. Calistoga - improvement of treatment and land disposal facilities. Reclamation potential for irrigation.	City of Calistoga	Under construction	Sent. 1975	Federal and State grants; local share to be financed by City of Calistoga.
	b. Yountville - improvement of treatment and disposal facilities for City of Yountville and State Veterans Home with reclamation potential for agricultural irrigation, or intercepting raw wastes to Napa Sanitation Dist.	City of Yountville and State Veterans Home.	Oct. 1976	Oct. 1977	Federal and State grants; local share to be apportioned among City of Yountville and State Veterans Home.

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			Start	Completion	
10. <u>Marin & South Sonoma Counties</u>	<p>a. No. Marin-So. Sonoma Co.s- Consolidation of treatment facilities and improvement of disposal facilities for Novato Sanitary District and improvement of treatment facilities for Las Gallinas Valley Sanitary District with areawide and local reclamation potentials; improvement of treatment facilities for City of Petaluma and Sonoma Valley County S.D. with areawide and local reclamation potentials.</p> <p>b.&c Southern & Central Marin- Regional treatment and disposal facilities for Southern and Central Marin at Point San Quentin with areawide and local reclamation potentials; improvement or abandonment of treatment and disposal facilities for Sausalito</p> <p style="text-align: center;">(Continued)</p>	<p>Alamonte Sanitary District, Alto San. District, City of Belvedere, Homestead Valley Sanitary Dist. Kay Pack Sewer Maintenance District, City of Mill Valley, Richardson Bay Sanitary District, Sanitary District No. 5, Sausalito- Marin City Sanitary District, City of Sausalito, Southern Marin Subregional Sewerage Agency, Tamalpais Valley Community Services District; California State Prison at San Quentin, Sanitary District No. 1, San Rafael Sanitation District, City of San Rafael, San Quentin Village Sewer Maintenance District,</p> <p style="text-align: center;">(Continued)</p>	Feb. 1978	Sept. 1980	Federal and State grants; local share to be apportioned among agencies responsible for construction and operation of facilities. Hamilton A.F.B. will contract for its facilities needs.

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10. <u>Marin & South Sonoma Counties</u>	b.&c. Southern & Central Marin- (Continued) and Sanitary District No. 5. Transport facilities from Southern and Central Marin to new secondary treatment plant at Point San Quentin.	Sanitary District No. 2, City of Larkspur, Murray Park Sewer Maintenance District, Las Gallinas Valley Sanitary District, Novato Sanitary Dist, City of Petaluma, Sonoma Valley County Sanitation District.			
	d. Glen Ellen collection sewers.	Sonoma Valley County Sanitation District	Dec. 1975	Nov. 1976	Federal and State grants; local share to be financed by Sonoma Valley County Sanitation District
	e. Penngrove collection sewers and transport facilities from Penngrove to City of Petaluma.	County of Sonoma	May 1976	June 1977	Federal and State grants; local share to be financed by County of Sonoma.

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			Start	Completion	
11. <u>Marin County</u>	a. Bolinas - collection, treatment and land disposal facilities. Continued use of septic tanks where proven to be adequate. Reclamation potential.	Bolinas Community Public Utility District.	Under construction	Aug. 1975	Federal and State grants; local share to be financed by Bolinas Community Utility District.
	b. Stinson Beach - collection, treatment and land disposal facilities and/or continued use of septic tanks where proven to be adequate. Reclamation potential.	Stinson Beach County Water District	July 1977	July 1978	Federal and State grants; local share to be financed by Stinson Beach County Water District.
12. Marin County Tomaes Bay Watershed	a. Tomaes - collection and treatment facilities with land disposal. Reclamation potential for agricultural irrigation.	North Marin County Water District	Nov. 1975	Nov. 1976	Federal and State grants; local share to be financed by North Marin County Water District.

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12. <u>Marin County</u> Tomaes Bay Watershed	b. Point Reyes - Collection and treatment facilities with land disposal in conjunction with U.S. Coast Guard or continued use of septic tanks where proven to be adequate.	North Marin County Water District	Jan. 1977	Dec. 1977	Federal and State grants; local share to be financed by North Marin Co. Water District.
13. <u>City and County of San Francisco</u>	a. San Francisco Southeast Plant - Interim improvements, expansion and interim outfall.	City and County of San Francisco	June 1975	Sept. 1980	Federal and State grants; local share to be financed by the City and County of San Francisco
	b. North Point Plant - Conversion to wet weather facilities and interceptor to Southeast Plant.		July 1975	Dec. 1982	
	c. Richmond - Sunset Plant - Interim improvements and transport facilities to Southwest Plant and outfalls.		Jan. 1976	Nov. 1979	

BAY AREA SEWAGE SERVICES AGENCY
1975 Regional Water Quality Management Plan

TABLE I
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- 20 -

Planning Subregion	Facilities Plan (a)	Implementation Plan			
		Agencies Responsible for Construction and Operation of Facilities	Schedule for Construction of Facilities		Financing (b)
			Start	Completion	
13. <u>City and County of San Francisco</u>	d. Ocean outfalls (Phases I - Short outfall) (Phases II - Extended Outfall)	City and County of San Francisco	Feb. 1977	Sept. 1978 (Phase I) Sept. 1981 (Phase II)	Federal and State grants; local share to be financed by the City and County of San Francisco
	e. North Shore, Channel Street and Islais Creek outfall consolidations for wet weather flows.		Sept. 1975	Sept. 1979	
	f. Southwest Plant dry weather secondary and wet weather primary facilities.		July 1979	July 1982	
	g. Cross-town transport facilities from North Point area to Southwest area.		Jan. 1981	Jan. 1984	
	h. North and West-side shore-line storage for wet weather flows		July 1981	Jan. 1984	

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		Agencies Responsible for Construction and Operation of Facilities	Schedule for Construction of Facilities		Financing (b)
			Start	Completion	
14. <u>San Mateo County</u>	a. Northeast area - Improvement of treatment facilities for Burlingame and Millbrae. Transport facilities from Burlingame Millbrae, San Francisco International Airport, San Bruno, and Merck Chemical to South San Francisco outfall.	Cities of South San Francisco, Burlingame Millbrae and San Bruno; San Francisco International Airport.	Under construction	Aug. 1975	Federal and State grants; local share to be apportioned among South San Francisco, Burlingame, Millbrae, San Bruno, San Francisco International Airport. Merck Chemical contracted and paid full costs for its needs.
	b. San Mateo - Foster City - Improvement and expansion of treatment facilities for City of San Mateo; transport system for raw wastes from Estero Municipal Improvement District to San Mateo.	City of San Mateo and Estero Municipal Improvement District	Sept. 1975	Sept. 1977	Federal and State grants; local share to be apportioned between San Mateo and Estero

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TABLE I
Facilities in BASSA Planning Area

Planning Subregion	Facilities Plan (a)	Implementation Plan			
		Agencies Responsible for Construction and Operation of Facilities	Schedule for Construction of Facilities		Financing (b)
			Start	Completion	
14. <u>San Mateo County</u>	c. Southeast Area - Subregional treatment and disposal facilities at Redwood Shores; transport facilities from Menlo Park San. District to Redwood City; abandonment of Menlo Park Sanitary District, Redwood City and San Carlos-Belmont Treatment plants.	Cities of Redwood City, San Carlos, and Belmont, and Menlo Park Sanitary District.	Jan. 1977	June 1978	Federal and State grants; local share to be apportioned among Redwood City, San Carlos Belmont, and Menlo Park Sanitary Dist.
	d. Central Coastside - Improvement and expansion of treatment facilities for City of Half Moon Bay; Improvement or abandonment of existing treatment facilities for Montara and Granada Sanitary Districts; Transport facilities from Montara and Granada to Half Moon Bay; joint disposal facilities with reclamation potential for agricultural irrigation.	City of Half Moon Bay, Montara Sanitary Dist, Granada Sanitary Dist, and Coastside Sewer Service Agency.	Oct. 1976	May 1978	Federal and State grants; local share to be apportioned among City of Half Moon Bay, Montary S.D. and Granada S.D.

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TABLE I
Facilities in BASSA Planning Area

Planning Subregion	Facilities Plan (a)	Implementation Plan			
		Agencies Responsible for Construction and Operation of Facilities	Schedule for Construction of Facilities		Financing (b)
			Start	Completion	
14. <u>San Mateo County</u>	e. City of Pacifica - Improvement of treatment facilities for City of Pacifica	City of Pacifica	May 1976	July 1978	Federal and State grants; local share to be financed by City of Pacifica.
	f. <u>No. San Mateo County Sanitation District</u> - Improvement of treatment facilities for North San Mateo County Sanitation District. Reclamation for landscaping irrigation.	North San Mateo County Sanitation District	Sept. 1975	Aug. 1977	Federal and State grants; local share to be financed by North San Mateo County Sanitation District.

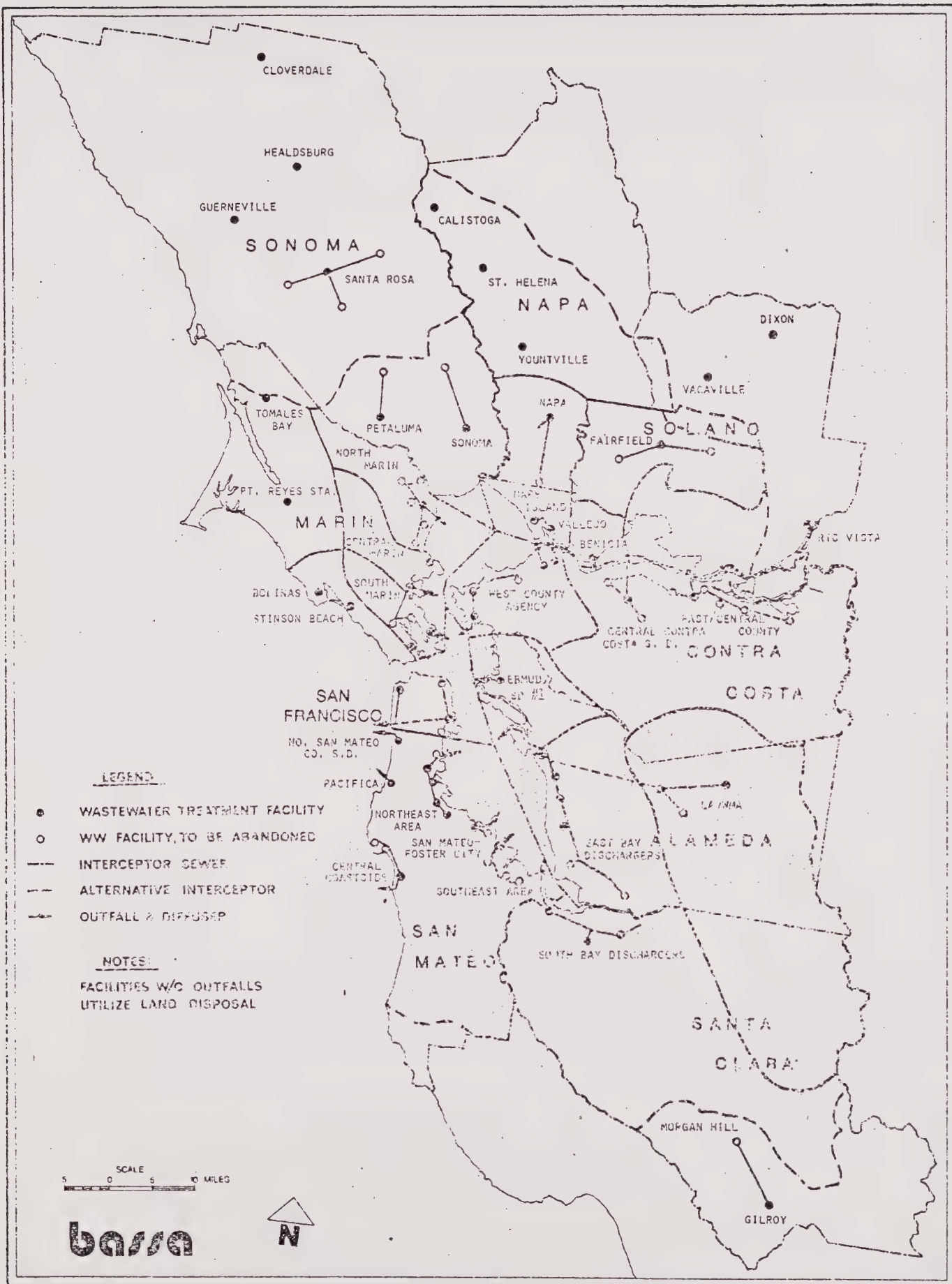


Figure 1. SUBREGIONAL FACILITIES PROGRAM

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TABLE II
Facilities Outside BASSA Planning Area

Planning Subregion	Facilities Plan (a)	Implementation Plan			
		Agencies Responsible for Construction and Operation of Facilities	Schedule for Construction of Facilities		Financing (b)
			Start	Completion	
<u>North Coastal Basin</u> <u>1B</u> Sonoma County Portion	a. Santa Rosa Area - Improvement and expansion of treatment facilities at Laguna Plant of City of Santa Rosa with reclamation for agricultural irrigation. Transport facilities from West College Plant of Santa Rosa, to Laguna Plant. Transport facilities from Cities of Cotati and Rohnert Park to Laguna Plant. Transport facilities from City of Sebastopol to Laguna Plant.	Cities of Santa Rosa, Rohnert Park, Cotati, and Sebastopol.	Sept. 1975	Feb. 1978	Federal and State grants; local share to be apportioned among Cities of Santa Rosa, Rohnert Park, Cotati and Sebastopol.
	b. Cloverdale - Improvement of existing treatment and disposal facilities for City of Cloverdale. Reclamation potential for agricultural irrigation.	City of Cloverdale	1976	1977	Federal and State grants; local share to be financed by City of Cloverdale.

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TABLE II
Facilities Outside BASSA Planning Area

Planning Subregion	Facilities Plan (a)	Implementation Plan			
		Agencies Responsible for Construction and Operation of Facilities	Schedule for Construction of Facilities		Financing (b)
			Start	Completion	
North Coastal Basin 1B Sonoma County Portion	c. Windsor - Improvement of treatment and disposal facilities. Reclamation potential for agricultural irrigation.	Windsor County Water District	Aug. 1976	July 1977	Federal and State grants; local share to be financed by Windsor County Water District.
	d. Occidental - Improvement of treatment and disposal facilities. Reclamation potential for agricultural irrigation.	County of Sonoma	Under construction	Sept. 1975	Federal and State grants; local share to be financed by County of Sonoma
	e. Graton - Collection, treatment and disposal facilities. Reclamation potential for agricultural irrigation		May 1976	Dec. 1976	
	f. Guerneville - Collection, treatment and disposal facilities for Guerneville. Reclamation potential for agricultural irrigation.		Jan. 1977	Jan. 1978	

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Planning Subregion	Facilities Plan (a)	Implementation Plan			
		Agencies Responsible for Construction and Operation of Facilities	Schedule for Construction of Facilities		Financing (b)
			Start	Completion	
<u>North Coastal Basin</u> <u>1B</u> Sonoma County Portion	g. Forestville - Improvement of treatment and disposal facilities. Reclamation potential for irrigation.	Forestville County Sanitation District.	Under construction	Aug. 1975	Federal and State grants; local share to be financed by Forestville Sanitation Dist.
	h. Bodega Bay - Collection and treatment facilities. Reclamation potential for irrigation.	Bodega Bay Public Utility District	Sept. 1975	Sept. 1976	Federal and State grants; local share to be financed by Bodega Bay Public Utility District.
<u>Central Valley Basins</u> <u>5A and 5B</u> Solano County Portion	a. Dixon - Expansion of treatment facilities.	City of Dixon	Dec. 1975	Mar. 1976	To be financed by City of Dixon.

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TABLE II
Facilities Outside BASSA Planning Area

Planning Subregion	Facilities Plan (a)	Implementation Plan			
		Agencies Responsible for Construction and Operation of Facilities	Schedule for Construction of Facilities		Financing (b)
			Start	Completion	
Central Valley Basins 5A and 5B Solano County Portion	b. Rio Vista - Improvement of treatment facilities	City of Rio Vista	Mar. 1976	Oct. 1977	Federal and State grants; local share to be financed by City of Rio Vista.
	c. Vacaville - Improvement of treatment facilities	City of Vacaville	June 1976	June 1977	Federal and State grants; local share to be financed by City of Vacaville.

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- (a) See Figure I for locations of facilities and pipeline routing.
- (b) Up to 75 percent of capital costs available from Federal Clean Water Grants authorized by PL 92-500, plus up to 12.5 percent of capital costs available from State Grants authorized by State Clean Water Bond Act.
- (c) Improvements cited throughout Table are those necessary for compliance with NPDES Permit requirements.

UNSEWERED AREAS

Individual sewage treatment and disposal systems often cause pollution and health hazards. The severity of failure increases with the age of the systems. Adequate regulation of individual systems in new developments, plus adequate maintenance and/or replacement of old systems with community sewers are actions necessary to prevent pollution and contamination.

This Agency encourages, will assist local agencies and, where necessary, undertake itself the following actions:

1. Adoption and enforcement of adequate ordinances for regulation of:
 - Construction and maintenance of individual systems in new developments.
 - Inspection and maintenance or replacement of individual systems with community sewers in older developments.
2. Replacement of individual systems with community sewerage systems where general conditions of pollution or contamination cannot be corrected by a reasonable maintenance program.

SOURCE CONTROL

The waste discharge requirements adopted by the Regional Boards for community facilities require control of sources of hazardous wastes by industries. The facilities programs described in Table I will achieve compliance with requirements provided effective source control programs are carried out.

The Agency encourages and will assist sewerage agencies to adopt and enforce ordinances for control of these wastes at their sources. The criteria against which the Agency will evaluate the adequacy of local efforts will include, but not necessarily be limited to:

- Adoption of an ordinance equivalent to "Model Wastewater Discharge Ordinance" compiled by Uniform Ordinance Subcommittee, California Water Pollution Control Association, April 1974 or sequence.
- Institution of a monitoring program to assure compliance with the ordinance.
- Compliance with Regional Board waste discharge requirements for toxic materials.

RESIDUALS MANAGEMENT

The Agency is participating in development of a regional plan for treatment, reuse and disposal of the solid residues from wastewater treatment processes. Upon completion, a regional residuals management element will be added to this Plan.

WASTEWATER RECLAMATION/REUSE

Wastewater is a large part of the region's total water resources. Levels of treatment necessary for compliance with discharge requirements markedly improve the feasibility of reuse. The Agency encourages and will assist local subregional wastewater agencies and water supply agencies in development of reuse programs.

URBAN RUNOFF

Both wet and dry weather surface flows from urban areas add pollution and contamination loads to the waters of the region. Expenditures from sewage and industrial waste treatment programs can be negated by this form of pollution. Urban runoff is usually collected and discharged through natural watercourses, ditches, gutters and storm drains. Locations for future treatment of runoff proximate that for sewage and industrial waste treatment. Thus, existing sewage and industrial waste treatment programs will provide a nucleus for future treatment of urban runoff.

The Agency will participate in development of urban runoff management programs in 208 planning.

INFILTRATION/INFLOW

The amount of extraneous water which enters sewerage systems tends to increase with the age of sewers. This extraneous flow often overloads hydraulic and treatment capacity resulting in threats to public health, hazard to the community, flooding and non-compliance with NPDES requirements. Infiltration can be controlled by adequate maintenance and repair programs. The Agency will encourage and assist sewerage agencies in instituting necessary inspection and repair programs.

PERSONNEL TRAINING AND RECRUITMENT

The facilities plan will markedly increase the number of trained people needed for operation and control. The Agency will assist and encourage all interested agencies in recruitment of qualified personnel and in the implementation of continuing training programs.

COORDINATED MONITORING

All wastewater dischargers must sample and analyze wastewaters for purposes which include industrial waste control, process control and to demonstrate compliance with waste discharge requirements. Independent monitoring programs have multiplied the number of wastewater laboratories and considerable duplication of effort. The Agency will assist and encourage consolidation of monitoring programs where feasible.

U.C. BERKELEY LIBRARIES



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